				/ //	LUC
QUERY CONTROL FO	ORM			'RTIS U	SE ONLY
Application No. 09	1653,411	Prepared by	NPB.	Tracking Number	05,895991
Examiner-GAU Eco	Vert - 28/5	Date	3/10/04	Week Date	1/26/04
		No. of queries	2	/Pu/	

JACKET					
a. Serial No.	f. Foreign Priority	k. Print Claim(s)	p. PTO-1449		
b. Applicant(s)	g. Disclaimer	I. Print Fig.	q. PTOL-85b		
c. Continuing Data	h. Microfiche Appendix	m. Searched Column	r. Abstract		
d. PCT	i. Title	n. PTO-270/328	s. Sheets/Figs		
e. Domestic Priority	j. Claims Allowed	o. PTO-892	t. Other		

SPECIFICATION	MESSAGE
a. Page Missing	(1) DTD-1449 (3 pages): Dlease either initial or
b. Text Continuity	line through citations (copy provided for
c. Holes through Data	reference).
d. Other Missing Text	J
e. Illegible Text	(2) Please provide clear/jegible copy of field of
f. Duplicate Text	search form (not sune If the data cited on the
g. Brief Description	affected form are already cited on the other
h. Sequence Listing	search form). Dlease adv/x/ver/fu.
i. Appendix	
j. Amendments	
k. Other	
CLAIMS	
a. Claim(s) Missing	
b. Improper Dependency	Thankyou-
c. Duplicate Numbers	
d. Incorrect Numbering	initials Office.
e. Index Disagrees	RESPONSE
f. Punctuation	(1) PTO-1449 (3 pages) have been lined through
g. Amendments	and initialed So attacket
h. Bracketing	
i. Missing Text	(2) - Field of search form was cited on the
j. Duplicate Text	lile wrapper which is traceable. No need
k. Other	to provide another copy
	initials TN

NOV 2 0 2003 BY

PTO/S8/08A (10-01)
Approved for use through 10/31/2002.OMB 0651-0031
U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE and to respond to a collection of information unless 8 contains a valid OMB control number.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

Complete if Known

P. A-43-4-	for form 1449A	DTO.		. '	Complete it Known
Substitute	i igi igini 1449A	<i>IF</i> 10		Application Number	09/653,411
INFO	DRMATI	ON DI	SCLOSURE	Filing Date	August 31, 2000
			APPLICANT	First Named Inventor	Whonchee Lee
0				Art Unit	2815
(use as many sheets as necessary)			necessary)	Examiner Name	Joseph H. Nguyen
Sheet	1	of	3	Attorney Docket Number	M4065.0361/P361

Examiner nitats*	Cite No.	Document Number Number-Kind Code [®] (# Innown)	Publication Date MM-DD-YYYY Name of Patentee or Applicant of Cited Document		Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	
TN	AA	2001/0036746	11-01-2001	Sato et al.	1	
1	AB	2002/0025759	02-28-2002	Lee et al.	<u> </u>	
+	AC	2002/0025760	02-28-2002	Lee et al.	1	
+	AD	2002/0025763	02-28-2002	Lee et al.		
	AE	2002/0052126	05-02-2002	Lee et al.	<u> </u>	
1	AF	2002/0070126	06-13-2002	Sato et al.		
\neg	AG	2003/0054729	02-20-2003	Lee et al.		
	AH	2003/0109198	06-12-2003	Lee et al.		
_	Al	2003/0129927	07-10-2003	Lee et al.		
\neg	AJ	4,839,005	06-13-1989	Katsumoto et al.		
-	AK	5,244,534	09-14-1993	Yu et al.		
_	AL	5,300,155	04-05-1994	Sandhu et al.		
_	AM	5,567,300	10-22-1996	Datta et al.		
\dashv	AN	5,575,885	11-19-1996	Hirabayashi et al.		
$\overline{}$	AO	5,618,381	04-08-1997	Doan et al.		
	AP	5,676,587	10-14-1997	Landers et al.		
	AQ	5,681,423	10-28-1997	Sandhu et al.		
\neg	AR	5,780,358	07-14-1998	Zhou et al.		
\neg	AS	5,807,165	09-15-1998	Uzoh et al.		
\neg	AT	5,840,629	11-24-1998	Carpio		
	AU	5.846.398	12-08-1998	Carplo		
	AV	5,863,307	01-26-1999	Zhou et al.		
	AW	5,897,375	04-27-1999	Watts et al.		
$\neg \vdash$	AX	5,911,619	06-15-1999	Uzoh et al.		
\neg	AY	5,930,699	07-27-1999	Bhatia		
	AZ	5,934,980	08-10-1999	Koos et al.		
	AA1	5,954,975	09-21-1999	Cadien et al.		
	AB1	5,954,997	09-21-1999	Kaufman et al.		
	AC1	5,972,792	10-26-1999	Hudson		
	AD1	6,001,730	12-14-1999	Farkas et al.		
	AE1	6,010,964	01-04-2000	Glass		
	AF1	6,033,953	03-07-2000	Aoki et al.		
	AG1	6,039,633	03-21-2000			
	AH1	6,046,099	04-04-2000			
	Al1	6,051,496	04-18-2000			
	AJI	6,060,386	05-09-2000			
1	AK1	6,060,395	05-09-2000			
-1-	AL1	6,063,306	05-16-2000	Kaufman et al.		
	AM1	6,066,030	05-23-2000	Uzoh		
	AN1		05-23-2000			
	AO1	6,068,787	05-30-2000	Grumbine e t al.		
	AP1		07-04-2000	Mravic et al.		
	AQ1		08-08-2000	Hasegawa		
	ARI		08-15-2000	Talleh		
\vdash	AS1		09-12-2000	Lukanc et al.		

1675112 v1; ZWSW01LDOC

MOV 2 0 2003 ES

PTO/SB/08A (10-01)
Approved for use through 10/31/2002.OMB 0851-0031
U. S. Patent and Tradement Office: U.S. DEPARTMENT OF COMMERCE cond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449APTO	Complete If Known		
Substitute the form 1449AP 10	Application Number	09/653,411	
INFORMATION DISCLOSURE	Filing Date	August 31, 2000	
		1	

	-		U.S. PA	TENT DOCUMENTS
W	AT1 6,	121,152	09-19-2000	Adams et al.
i			11-07-2000	Adams et al.
	AV1 6,	171,467	01-09-2001	Weihs et al.
	AW1 6,	176,992	01-23-2001	Talleh
	AX1 6,	187,651	02-13-2001	Oh
	AY1 6,	196,899	03-08-2001	Chopra et al.
	AZ1 6,	206,756	03-27-2001	Chopra et al.
	AA2 6.	218,309	04-17-2001	Miller et al.
		250,994	06-26-2001	Chopra et al.
	AC2 6.	273,786	08-14-2001	Chopra et al.
	AD2 6	276,996	08-21-2001	
	AE2 6	287,974	09-11-2001	Miller
	AF2 6,	299,741	10-09-2001	Sun et al.
		313,038	11-06-2001	Chopra et al.
	AH2 6,	328,632	12-11-2001	Chopra
	A12 6	,368,190	04-09-2002	Easter et al.
	AJ2 6	455,370	09-24-2002	Lane
	AK2 5	993,637	11-30-1999	Hisamatsu et al.

		FORE	GN PATENT	DOCUMENTS		
Examiner Initials*	Cite No.	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ³ (# known)	Publication Date	Name of Patentoe or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Pessages or Relevant Figures Appear	T°
77/	BA	EP 0 459 397 A2	12-04-1991	Naoto Miyashita		
-//-	BB		03-23-2001	Nogami Takeshi, et al.		Γ
	BC	WO 00/28586	05-18-2000	Dinesh Chopra		1_
	BD	WO 00/26443	05-11-2000	Homayoun Talleh		
	BE	WO 00/32356	06-08-2000	Homayoun Talieh		1_
	BF	WO 00/59008	10-05-2000	Homayoun Talieh		1_
	BG	WO 00/59682	10-12-2000	Homayoun Talleh		
	ВН	WO 02/064314	08-22-2002	Ismail Emesh, et al.		_
	1					L

¹ Applicant's unique cliation designation number (optional). ¹ See attached Kinds Codes of USPTO Patent Documents at www.istb.oog/en/PPP-901.04. ² Enter Office that issued the document, by the two-latter code (WPO Standard ST.3). ¹ For Japanese patent documents, the indication of the year of the retign of the Emperor must precede the application number of the potent document. ⁸ Kind of document by the appropriate symbols as indicated on the document under WPO Standard ST. 16 if possible. ⁸ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS							
Examiner Initials	is No.1 nem (book, magazine, journal, serail, symposium, cassing, etc), data, pagetoy, retainersees in the No.1						
W	CA	KONDO, S. et al., "Abrasive-Free Polishing for Copper Damascene Interconnection," Journal of the Electrochemical Society, Vol. 147, No. 10, pp. 3907-3913, (2000)					
	СВ	DHEURLE, F.M. and K.C. PARK, IBM Technical Disclosure Bulletin, Electrolytic Process for Metal Pattern Generation, Vol. 17, No. 1, pp. 271-272, June 1974, XP-002235691, NN 7406271.					
	CC	FRANKENTHAL, R.P. and EATON, D.H., "Electroetching of Platinum in the Titanium- Platinum-Gold Metallization on Silicon Integrated Circuits," Journal of The Electrochemical					

1675112 VI; ZW\$W011.DOC

PTC/SB/08B (1091)
Approved for use through 10/31/2002.OMB 0831-831
U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE and to a collection of information units is contains a valid OMB control nuriter,

Su	bstitute for form 14498/	PTO		Complete if Known		
50.				Application Number	09/653.411	
11	NFORMATIO	ON DI	SCLOSURE	Filing Date	August 31, 2000	
STATEMENT BY APPLICANT				First Named Inventor	Whonchee Lee	
	,,,,,			Group Art Unit	2815	
(use as many sheets as necessary)			necessary)	Examiner Name	Joseph H. Nguyen	
Sheet	3	of	3	Attorney Docket Number	M4065.0361/P361	

7/	CD	ABOAF, J.A. and R.W. BROADIE, IBM Technical Disclosure Bulletin, Rounding of Square- Shape Holes in Silicon Wafers, Vol. 19, No. 8, p. 3042, January 1977, XP-002235690, NN 77013042.
	CE	BASSOUS, E., IBM Technical Disclosure Bulletin, Low Temperature Methods for Rounding Silicon Nozzlas, Vol. 20, No. 2, July 1977, pp. 810-811, XP-002235692, NN 7707810.
	CF	McGraw-Hill, "Chemical bonding," Concise Encyclopedia of Science & Technology, Fourth Edition, Sybil P. Parker, Editor in Chief, p. 357, McGraw-Hill, New York, New York, 1998.
	CG	PhysicsWorld. Hard Materials (excerpt of Superhard superlattices) [online]. S. Barnett and A. Madan, Physics World, January 1998, Institute of Physics Publishing Ltd., Bristol, United Kingdom. Retrieved from the Internet on July.29, 2002. <url: 1="" 11="" box="" http:="" physicsweb.org="" world="" world-11-1-11-1="">.</url:>
	СН	HUANG, C.S. et al., "A Novel UV Baking Process to Improve DUV Photoresist Hardness." pp. 135-138, Proceedings of the 1999 International Symposium on VLSI Technology, Systems, and Applications: Proceedings of Technical Papers: June 8-10, 1999, Taipel, Taiwan, Institute of Electrical and Electronics Engineers, Inc., September 1999.
1	CI	ATMI, Inc., adapted from a presentation at the Semicon West '99 Low Dielectric Materials Technology Conference, San Francisco, California, July 12, 1999, pp. 13-25.
	ငၪ	Micro Photonics, Inc. CSM Application Bulletin. Low-load Micro Scratch Tester (MST) for characterisation of thin polymer films (online). 3 pages. Retrieved from the Internet on July 25, 2002. <url: http:="" mstabpoly.html="" www.microphotonics.com="">.</url:>
1	СК	Micro Photonics, Inc. CSM Nano Hardness Tester [online]. 6 pages. Retrieved from the Internet on July 29, 2002. <url: http:="" nht.html="" www.microphotonics.com="">.</url:>

Examiner Signature	JOSENA NAVIEW	Data Considered	1/10/04

1675112 v1; ZW\$W01LDOC

			- 1
•			
		<u> </u>	• • • • • • • • • • • • • • • • • • • •
The same of the sa			
	v -u		- 6 - 6
	a She's	William Control	1 1
/ nonligo	1.78.72	William St.	
Ton Toute 1	Exmr.	1	
and the second of the second of		reaction of the second	1.
en e	المستديد أأرادا		
		12 months	
	a white the statement of the statement o	ia 4	
: emper			
.l d		Warner :	
i) 1	i i i i i i i i i i i i i i i i i i i		
	r e e e e e e e e e e e e e e e e e e e	his min	
	1 1004	Mars gray ar	
	86	E Semela 1912/02 Betu-medianical gutaching	To !
		o t mechanica	
		articline"	
		1	
INTERFERENCE	SEARCHED		
	112/01 J.A	Ì	
27 709-110	,,,,,,,		
			1 1
	MIGHT DUTS!	DEI	

09653411 - SRFW Page 1 of 1 (08-31-2000)